FORM 925199—REV. (1/79)

Dresser Atlas

DRESSER

Compensated Densilog

00931927

FILE NO.

COMPANY RINCON OPERATING CO. & MORGAN OIL CO.

WELL #1 CHVATAL 087-07588

FIELD WILDCAT

COUNTY MORGAN STATE COLORADO

LOCATION:
C SWSW

13

SEC 18 TWP 3N RGE 55W

Other Services
IEL

Permanent Datum G.L. Elev. 4389

Log Measured from K.B. 8.0 Ft. Above Permanent Datum

Drilling Measured from K.B.

Elevations:
KB 4397
DF
GL 4389

RECEIVED
APR 27 1981
COLO. OIL & GAS CONS. COMM.

Date	4-22-81			
Run No.	ONE			
Service Order	67863			
Depth—Driller	5200			
Depth—Logger	5195			
Bottom Logged Interval	5193			
Top Logged Interval	4950			
Casing—Driller	8 5/8 @ 130	@	@	@
Casing—Logger	NOT LOGGED			
Bit Size	7 7/8			
Type Fluid in Hole	GILSONITE-GEL			
Density and Viscosity	9.9 | 85			
pH and Fluid Loss	8.0 | 6.0 cc	cc	cc	cc
Source of Sample	FLOWLINE			
Rm @ Meas. Temp.	3.92 @80 °F	@ °F	@ °F	@ °F
Rmf @ Meas. Temp.	2.91 @80 °F	@ °F	@ °F	@ °F
Rmc @ Meas. Temp.	4.92 @80 °F	@ °F	@ °F	@ °F
Source of Rmf and Rmc	MEAS | MEAS			
Rm @ BHT	2.38 @132 °F	@ °F	@ °F	@ °F
Time Since Circ.	FIVE HOURS			
Max. Rec. Temp. Deg. F.	132 °F	°F	°F	°F
Equip. No. and Location	6109 | FM			
Recorded By	F.CHLUMSKY			
Witnessed By	MR.MORGAN/MR.MURPHY			

FOLD HERE

Remarks:

EQUIPMENT DATA

	Run No. 1			Run No. 2			Run No. 3		
	CDL	G/R	Caliper	CDL	G/R	Caliper	CDL	G/R	Caliper
Series No.	2207	1306							
Serial No.	28492	27818							
Diameter	5.25"	3.6"							
Elec. No.	28492	27818							
Detect: Mod. No.	1G15	D6G4	▨			▨			▨
Type	GM	SCINT	▨			▨			▨
Dist. to Source	▨	8'	▨	▨		▨	▨		▨
Source Model No.	S3T20	▨			▨			▨	
Serial No.	386	▨			▨			▨	
Computer No.	3457	3457							
Serial No.	45800	32550							

LOGGING DATA

General				Compensated Densilog				Gamma Ray				Caliper
Run No.	Depths From	Depths To	Speed Ft./Min.	T.C. Sec.	Density Scale	Correction Scale	Porosity Scale Data	T.C. Sec.	Sens. Settings	Zero Div. L or R	API G.R. Units/Div.	Scale
1	5200	4960	REC	ATC	2.0-3.0	-.5+.5	0-30%	2	317	0	20	6-16"
							2.65					
							1.00					

GAMMA RAY
& CALIPER

API UNITS

0 200

HOLE SIZE
(Inches)

6 16

DEPTH

BULK DENSITY
GRAMS/CC

CORRECTION

-.5 0 +.5

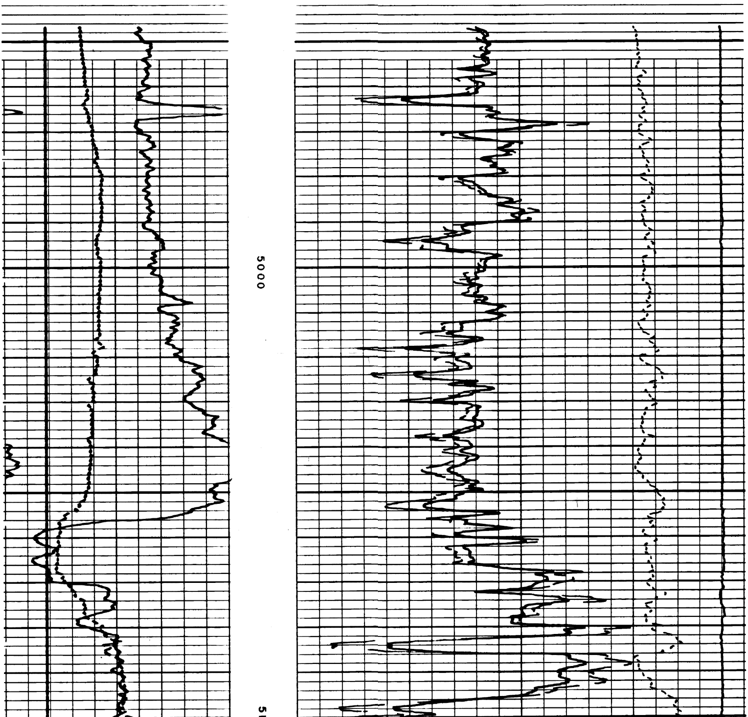
← TENSION INCREASES
500#CD

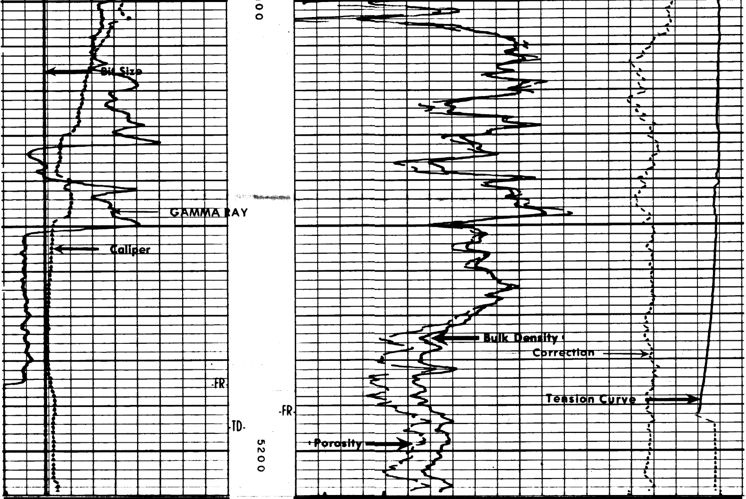
2.0 2.5 3.0

SANDSTONE POROSITY-%

30 20 10 0 -10

GRAIN DENSITY-2.66 GM/CC FLUID DENSITY-1.00 GM/CC





GAMMA RAY & CALIPER	DEPTH	BULK DENSITY GRAMS/CC
6 — 16 HOLE SIZE (Inches)		SANDSTONE POROSITY-% 30 20 10 0 -10 GRAIN DENSITY-2.65 GM/CC FLUID DENSITY-1.00 GM/CC
0 — 200 API UNITS		2.0 2.5 3.0 TENSION INCREASES 500#CD -.5 0 +.5 CORRECTION

CALIBRATION

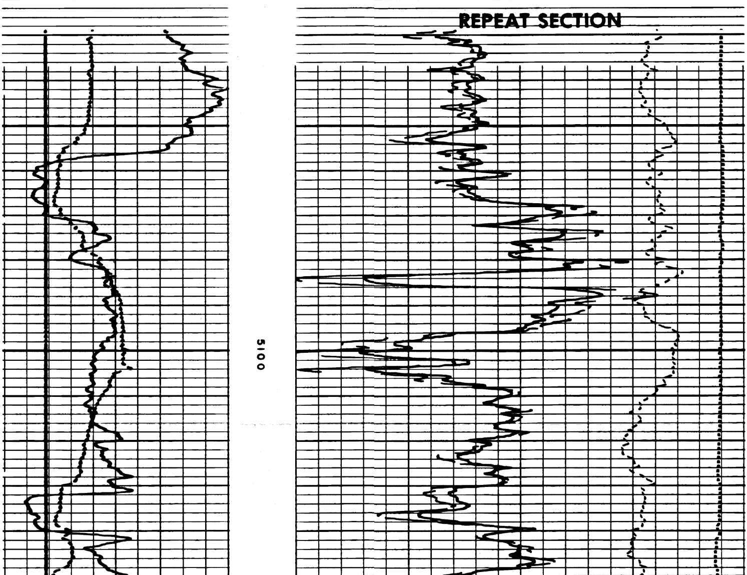
GAMMA RAY

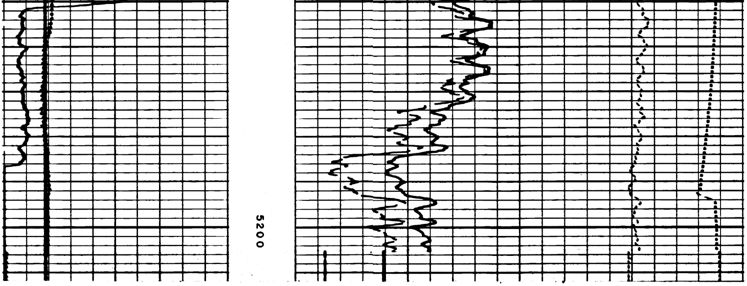
1. MECHANICAL ZERO
2. PANEL—LOW
3. PANEL—HIGH
4. COUNT RATE METER
5. BACKGROUND READING
6. GAMMA RAY—HIGH

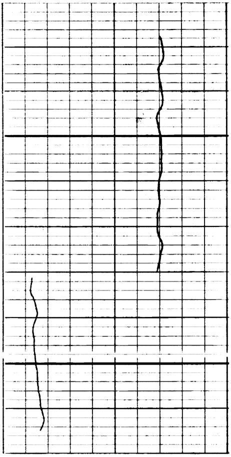
COMPENSATED DENSILOG

1. MECHANICAL ZERO
2. PANEL—LOW
3. PANEL—HIGH
4. CALIPER—LOW
5. CALIPER—HIGH
6. DENSITY—LOW
7. DENSITY—HIGH
8. DENSITY—CORRECTION

Company	RINCON OPERATING & MORGAN OIL CO	Drillers T.D.	5200
Well	CHVATAL #1	Log F.R.	5193
Field	WILDCAT	Log T.D.	5195
County	MORGAN	Elevations:	
State	COLORADO	K.B. 4397 D.F.	G.L. 4389

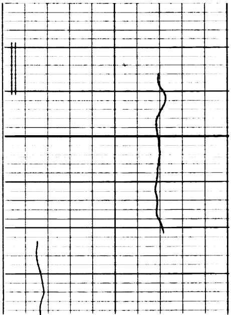






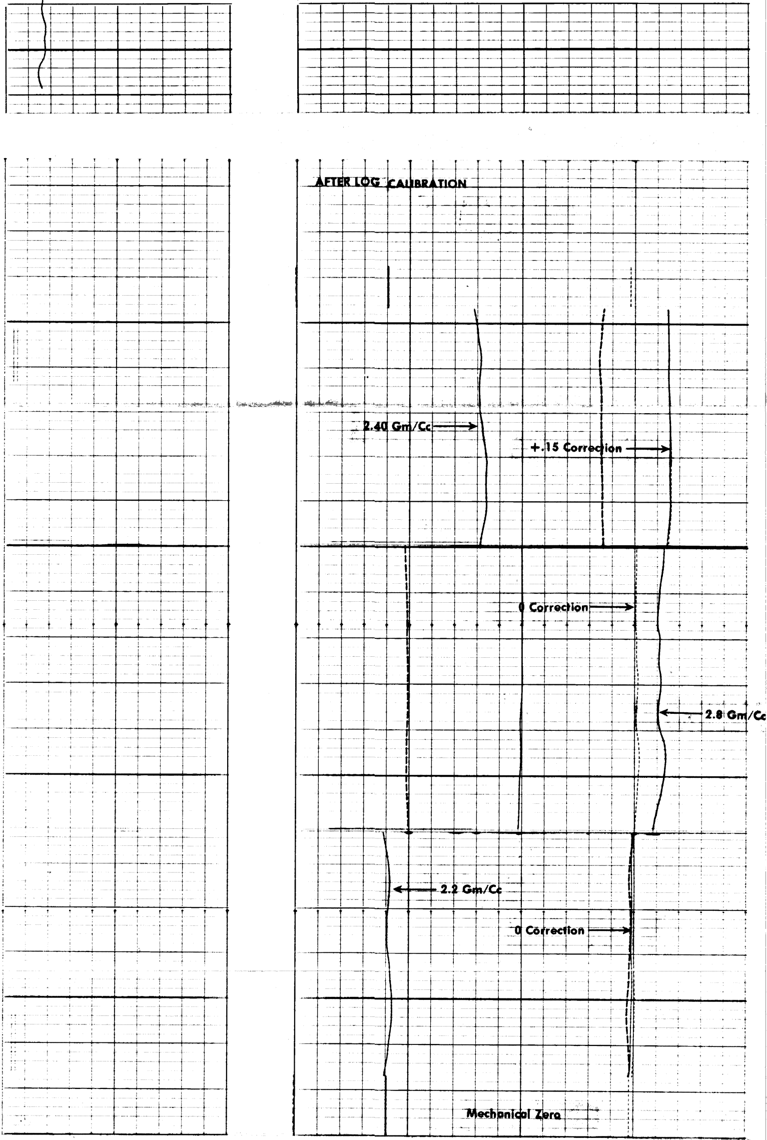
G/R LOG CALIBRATION
AFTER LOG

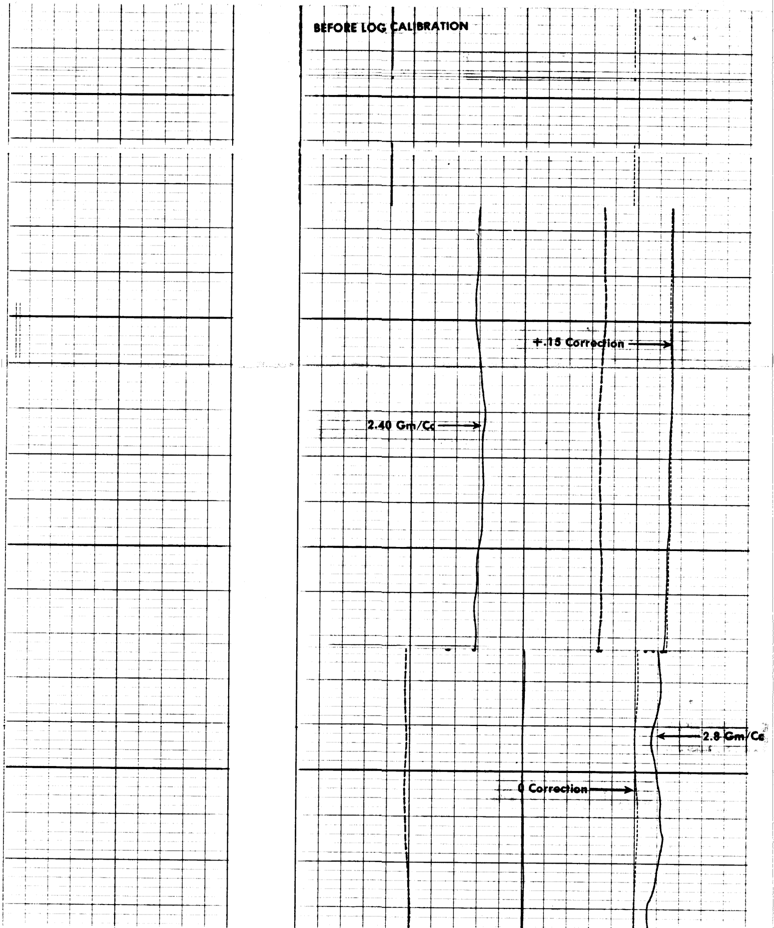
API UNITS OF CALIB. STD. 185
SENSITIVITY READING 200
MULTIPLIER X1
ZERO SUPPRESSION 0
TIME CONSTANT 2
MEASURED CHART DIVISIONS 4.5

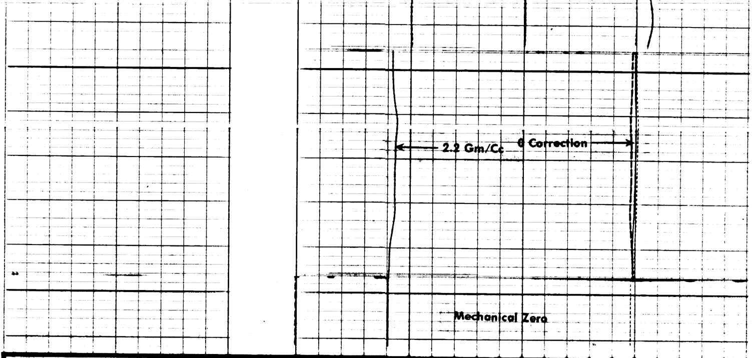


G/R LOG CALIBRATION
BEFORE LOG

API UNITS OF CALIB. STD. 185
SENSITIVITY READING 200
MULTIPLIER X1
ZERO SUPPRESSION 0
TIME CONSTANT 2
MEASURED CHART DIVISIONS 4.5


AFTER LOG CALIBRATION





COMPANY RINCON OPERATING & MORGAN OIL CO.
WELL CHVATAL
FIELD WILDCAT
COUNTY MORGAN
STATE COLORADO

Quantitative Log Interpretation

DresserAtlas

This interpretation represents our best judgement. However, because all log analysis is based on best assumptions and empirical relationships, we cannot guarantee the accuracy of these figures. For this reason, we must disclaim any responsibility for any loss or expense which results from the use of this interpretation.

DEPTH	ΔT	$\varnothing_{AL}$	D_B	$\varnothing_D$	F	R_w	R_t	R_{wa}	S_w	Remarks
5056-58				11%	66.94	17	4.5		100%	"D"SAND
5058-60				18%	25	.17	4.5		97.2%	
5060-62				9%	100	.17	4.5		100%	
5062-66				16%	31.64	.17	4.5		100%	
5066-72				6%	225	.17	6			TIGHT
5075-79				9.5%	89.75	.17	4.5		100%	
5132-34				14%	41.32	.23	10		97.5%	
5135-39				20%	20.25	.23	7.5		78.8%	
5150-54				14%	41.32	.23	15		79.6%	
5154-56				16%	31.64	.23	15		69.6%	
5156-60				14%	41.32	.23	16		77.1%	
5160-63				12%	56.25	.23	16		89.9%	
5163-65				10%	81	.23	17		100%	
5165-70				13.5%	44.44	.23	15		82.5%	

5170-74				17%	28.03	.23	13.5		69.1%	
5174-77				22%	16.74	.23	11		59.2%	
5177-81				22%	16.74	.23	10		62.1%	
5183-90				23%	15.31	.23	9		62.6%	

References

ΔT_{ma} D_{ma} 2.65

ΔT_f D_f 1.00

ΔT_{sh}

F. CHLUMSKY
DRESSER ATLAS ENGINEER

4-22-81
DATE